BIOMEDICAL SCIENCES
Fall 2009/2010/2011

STUDENT: _____ Entering Semester: _____

CSUID: _____

GRADUATION REQUIREMENTS

1. Complete the All-University Core Curriculum (AUCC) Requirements -- See General Catalog
2. Complete the Biomedical Sciences Major Requirements (listed below)
3. Complete a **minimum of 120 semester credits**
4. Complete a **minimum of 42 upper division credits** (300, 400, or 500 level)
5. Have a **minimum cumulative grade point average of 2.0**
6. Complete the Department's Outcome Assessment Report

MAJOR REQUIREMENTS

BMS COURSES

LIFE 102 – Attributes of Living Systems (4)_____

LIFE 210 – Introduction to Eukaryotic Cell Biology (3)__

LIFE 212 – Introductory Cell Biology Lab (2) _____

LIFE 201B – Genetics (3) _____

BMS 360 – Fundamentals of Physiology (4) _____

BMS 302 – Laboratory in Prin. of Physiology (2) _____

MIP 300 – General Microbiology (3) _____

MIP 302 – General Microbiology Lab (2) _____

BMS 460 – Essentials of Pathophysiology (4) _____

BMS 492 – Seminar-Pathophysiology of Disease (1)___

Select **one** course from the following:

BMS 301 – Human Gross Anatomy (5) _____
OR
BMS 305 – Domestic Animal Gross Anatomy (4) _____
OR
BMS 330 – Microscopic Anatomy (4) _____

BMS DIRECTED ELECTIVES
(15 credits approved by Advisor)

_____ _____

_____ _____

_____ _____

_____ _____

PHYSICAL SCIENCE COURSES

General Chemistry

CHEM 111 (4) _____ CHEM 112 (1) _____

and

CHEM 113 (3)_____ CHEM 114 (1) _____

Organic Chemistry

CHEM 341 (3) _____ **and** CHEM 343 (3) _____ **and**

CHEM 344 (2) _____

Biochemistry

BC 351 (4) _____

Physics

PH 121 (5) _____ **and** PH 122 (5) ____

OR

PH 141 (5) _____ **and** PH 142 (5) ____

MATHEMATICS AND STATISTICS

MATH 155 (4) _____ **OR** MATH 160 (4) _____

STAT 301 (3) _____ **OR** STAT 307 (3) _____

Updated 06/20/2011

BMS DIRECTED ELECTIVES
15 credits approved by Advisor

BMS 192 – Seminar in Biomedical Sciences (1)

BMS 260 – Introduction to Biomedical Sciences (3) – ***required course for freshman***

BMS 325 – Cellular Neurobiology (3)

BMS 330 – Microscopic Anatomy (4) *(if BMS 305 or 301 has already been taken for anatomy requirement)*

BMS 345 – Functional Neuroanatomy (4)

BMS 384 – Supervised College Teaching (max. 3 credits)

BMS 405 – Nerve and Muscle –Toxins, Trauma and Disease (3)

BMS 420 – Cardiopulmonary Physiology (3)

BMS 430 – Endocrinology (3)

BMS 450 – Pharmacology (3)

BMS 487***** - Internship (varies)

BMS 495***** – Independent Study (varies)

BMS 498***** – Research (varies)

BMS 500 – Mammalian Physiology I (4)

BMS 501 – Mammalian Physiology II (4)

BMS 531 – Domestic Animal Dissection (3)

BMS 575 – Human Anatomy Dissection (4)

BC 463 – Molecular Genetics (3)

BC 465 – Molecular Regulation of Cell Function (3)

BC 467 – Biochemistry of Disease (3)

BZ 220 – Introduction to Evolution (3)

HES 319 – Neuromuscular Aspects of Human Movement (3)

MIP 342 – Immunology (4)

MIP 343 – Immunology Lab (2)

MIP 351 – Medical Microbiology (3)

MIP 352 – Medical Microbiology Lab (3)

*****No more than 3 credits earned in BMS 487, BMS 495, and BMS 498 can be used towards BMS Directed Electives. Additional credits earned in these courses are free electives.

ALL-UNIVERSITY CORE CURRICULUM (AUCC) REQUIREMENTS (credits)

1. Basic Competencies
   - A. Intermediate Writing (3) _____
   - B. Mathematics (3) Met by Major
2. Advanced Writing (3) _____
3. Foundations and Perspectives
   - A. Biological/Physical Sciences (7) Met by Major
   - B. Arts/Humanities (6) _____
     _____
   - C. Social/Behavioral Sciences (3) _____
   - D. Historical Perspectives (3) _____
   - E. Global & Cultural Awareness (3) _____
4. Depth and Integration

   BMS 460 Essentials of Pathophysiology (4)

   BMS 492 Seminar-Pathophysiology of Disease (1)

UPPER DIVISION COURSES

Of the **120 semester** credits required for graduation a **minimum of 42 credits** must be at the 300, 400 or 500 level. 500-level courses may be chosen but not required.

List total upper division credits by semester or by transfer institution
